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**From:** Kraft, Andrew [/O=EXCHANGELABS/OU=EXCHANGE ADMINISTRATIVE GROUP (FYDIBOHF23SPDLT)/CN=RECIPIENTS/CN=4A94A4F199B247778ABB02285A51B927-KRAFT, ANDREW]  
**Sent:** 9/16/2013 12:15:12 PM  
**To:** Sonawane, Bob [Sonawane.Bob@epa.gov]  
**Subject:** FW: Revised ADME section  
**Attachments:** FormaldehydeAppendixdraft070113forREVIEW-SVulimiri091013\_hy091513.docx

Just to keep you in the loop regarding the endogenous section, in which I know you have a vested interest... [one more forwarded email to follow]

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**From:** Yang, Hui Min  
**Sent:** Sunday, September 15, 2013 11:17 AM  
**To:** Vulimiri, Suryanarayana  
**Cc:** Glenn, Barbara; Schlosser, Paul; White, Paul; Subramaniam, Ravi; Kraft, Andrew; Ball, James; Dannan, Ghazi  
**Subject:** RE: Revised ADME section

Sury,

Thanks for all the work you have done, it is really not easy to respond/incorporate all these comments/suggestions into the document at such short time. It does read better.

It is rather difficult for me to see a clear picture of HCHO ADME after read the revision, the section is too detailed and too complicated to comprehend. The followings are my main comments/suggestions, other detailed comments/suggestions are as bubbles in the attached documents:

## Ex. 5 Deliberative Process (DP)

Sury, please let me know if you have any questions, thank you.

-Hui-Min

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**From:** Vulimiri, Suryanarayana  
**Sent:** Tuesday, September 10, 2013 10:08 AM  
**To:** Schlosser, Paul; White, Paul; Yang, Hui Min; Subramaniam, Ravi; Ball, James; Kraft, Andrew  
**Cc:** Glenn, Barbara; Vulimiri, Suryanarayana  
**Subject:** Revised ADME section

Hi Team,

Here is the revised version of the ADME draft with track changes.

- I have addressed all the major comments from the reviewers except one (see the mail trail below) which I asked John Whalan to help.
- I combined two figures – FA metabolism and one carbon pool. The revised figure also includes a summary of the endogenous sources. But the original endogenous sources of formaldehyde figure is kept as it is to give clarity and avoid complexity.
- As suggested by the reviewers, I added citations into the figure legend for the endogenous sources to cut down on the text.
- I created extra tables for each sub section and also created sub headings for few sections to make it easier.
- I added some new references based on our discussion on endogenous FA as well as sources, which I submitted to HERO. These references and some other links to old references need to be added. This will be done once the final revision is done.

I understand that the endogenous issues are not easy to put together, so feel free to add your edits wherever necessary.

I appreciate your feedback by COB Friday the 13<sup>th</sup>. Since the text is busy with track changes, it would add more complexity if your track changes are added on the present draft. So please save this as a clean file accepting changes and make your changes on the revised one. I can merge the comments from different reviewers.

I would like to discuss with the team early next week if any further refinements are necessary.

Sury

**Sury Vulimiri, Ph.D., DABT**

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**From:** Schlosser, Paul

**Sent:** Thursday, August 29, 2013 5:34 PM

**To:** Vulimiri, Suryanarayana; White, Paul; Yang, Hui Min; Subramaniam, Ravi; Ball, James; Kraft, Andrew

**Cc:** Glenn, Barbara

**Subject:** RE: Meeting minutes

## Ex. 5 Deliberative Process (DP)

-Paul

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**From:** Vulimiri, Suryanarayana

**Sent:** Thursday, August 29, 2013 3:58 PM

**To:** Schlosser, Paul; White, Paul; Yang, Hui Min; Subramaniam, Ravi; Ball, James; Kraft, Andrew

**Cc:** Glenn, Barbara

**Subject:** RE: Meeting minutes

Sure Paul. Here is the text and comment.

# Ex. 5 Deliberative Process (DP)

**Sury Vulimiri, Ph.D., DABT**

National Center for Environmental Assessment, Office of Research & Development, US EPA

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**From:** Schlosser, Paul

**Sent:** Thursday, August 29, 2013 3:45 PM

**To:** Vulimiri, Suryanarayana; White, Paul; Yang, Hui Min; Subramaniam, Ravi; Ball, James; Kraft, Andrew

**Cc:** Glenn, Barbara

**Subject:** RE: Meeting minutes

Can you copy DG60 into the body of an email, to help us focus on that?

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**From:** Vulimiri, Suryanarayana

**Sent:** Thursday, August 29, 2013 3:43 PM

**To:** Schlosser, Paul; White, Paul; Yang, Hui Min; Subramaniam, Ravi; Ball, James; Kraft, Andrew

**Cc:** Glenn, Barbara

**Subject:** RE: Meeting minutes

Hi All,

Just to give you an update on the ADME part, I have been addressing the reviewers' comments, besides adding some points from the recent discussion on endogenous formaldehyde and methanediol. Also, I am trying to combine the three figures into one figure and provide primary literature in the figure legend as suggested by Paul Schlosser.

There are some comments (DG70, h71, JB73, DG74, DG75) in the ADME section related to calculations of free formaldehyde, which is outside my expertise. Ravi, who worked on this part, has agreed to provide me with his responses early next week.

I would like the team to provide response or address the comment -DG60. This is one of the key issues raised by NAS.

Since I was also the author for the GeneTox section, I have been going back and forth with reviews and discussions in that section also. Besides, with several people going on vacation around Labor day, things are moving slowly. I would like to wrap up the ADME part by the end of next week for the next level review, if there are no major issues.

I appreciate if you can provide any information especially with regards to issues raised by NAS that would help clarify and strengthen the draft. Please provide your responses by COB Wednesday September 4<sup>th</sup>.

Let me know if there are some issues the team would like to discuss.

Thanks  
Sury

**Sury Vulimiri, Ph.D., DABT**

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**From:** Schlosser, Paul

**Sent:** Wednesday, August 21, 2013 8:32 AM

**To:** Vulimiri, Suryanarayana; White, Paul; Yang, Hui Min; Subramaniam, Ravi; Ball, James; Kraft, Andrew

**Subject:** RE: Meeting minutes

A couple comments:

## Ex. 5 Deliberative Process (DP)

-Paul

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**From:** Vulimiri, Suryanarayana

**Sent:** Tuesday, August 20, 2013 4:41 PM

**To:** White, Paul; Yang, Hui Min; Subramaniam, Ravi; Ball, James; Schlosser, Paul; Kraft, Andrew

**Cc:** Vulimiri, Suryanarayana

**Subject:** Meeting minutes

Hi all,

Thanks for attending the discussion yesterday on the endogenous formaldehyde issues. Please feel free to add/edit the meeting minutes for any missing thoughts. Thanks to Ravi and Andrew for capturing some of the points. I am enclosing the PDF section of the old draft where endogenous formaldehyde is described.

Sury

**Sury Vulimiri, Ph.D., DABT**

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**From:** White, Paul

**Sent:** Monday, August 19, 2013 12:18 PM

**To:** Vulimiri, Suryanarayana; Yang, Hui Min; Subramaniam, Ravi; Ball, James; Schlosser, Paul; Kraft, Andrew

**Subject:** Kallen and Jencks

Paper we discussed